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- 1 [Modeling event-driven service-oriented systems using the palladio](#) Christoph Rathfelder, Samuel Kounev  
August 2009 **QUASSOS '09**: Proceedings of the 1st international workshop on software systems

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (333.13 KB)

**Additional Information:** [full citation](#), [abstract](#)

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The use of event-based communication within a Service-Oriented Architecture including more loosely-coupled services and better scalability. However, it is difficult for system developers to ...

**Keywords:** event-driven communication, performance prediction, software

- 2 [Achieving long-term surveillance in VigilNet](#)

Pascal Vicaire, Tian He, Qing Cao, Ting Yan, Gang Zhou, Lin Gu, Liqian Luo, Tarek F. Abdelzaher

February 2009 **Transactions on Sensor Networks (TOSN)**, Volume 5 Issue

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (3.50 MB)

**Additional Information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 38, Downloads (12 Months): 203, Download

Energy efficiency is a fundamental issue for outdoor sensor network systems and implementation of multidimensional power management strategies support long-term surveillance using ...

**Keywords:** Applications of sensor and actuator networks, and longevity resource management, energy conservation, network protocols, sensor

- 3 [S<sup>3</sup>: a scalable sensing service for monitoring large networked systems](#) Praveen Yalagandula, Puneet Sharma, Sujata Banerjee, Sujoy Basu, Sung-September 2006 **INM '06**: Proceedings of the 2006 SIGCOMM workshop on

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (941.50 KB)

**Additional Information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 61, Download

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Efficiently operating and managing large scale distributed and federated problem. Current solutions are a combination of centralized management the infrastructure. With the explosion ...

#### 4 [Knowing the user's every move: user activity tracking for website usage interaction](#)



Richard Atterer, Monika Wnuk, Albrecht Schmidt

May 2006 **WWW '06: Proceedings of the 15th international conference on**

**Publisher:** ACM

Full text available: Pdf (1.22 MB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 37, Downloads (12 Months): 424, Downloads

In this paper, we investigate how detailed tracking of user interaction can be enabled by new technologies. Our motivation is to enable implicit interaction and to ease the integration of applications outside the lab. To obtain ...

**Keywords:** HTTP proxy, implicit interaction, mouse tracking, user activity evaluation

#### 5 [IrisNet: an architecture for internet-scale sensing services](#)

Suman Nath, Amol Deshpande, Yan Ke, Phillip B. Gibbons, Brad Karp, Srinivas Aravamudan  
September 2003 **VLDB '2003: Proceedings of the 29th international conference on**

**bases - Volume 29**, Volume 29

**Publisher:** VLDB Endowment

Full text available: Pdf (458.80 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 16, Downloads

We demonstrate the design and an early prototype of IrisNet (Internet-scale sensing services), a common, scalable networked infrastructure for deploying distributed sensing services. IrisNet is a potentially global network of ...

#### 6 [Extending the lifetime of wireless sensor networks through mobile relay nodes](#)

Wei Wang, Vikram Srinivasan, Kee-Chaing Chua

October 2008 **IEEE/ACM Transactions on Networking (TON)**, Volume 16

**Publisher:** IEEE Press [Request Permissions](#)

Full text available: Pdf (1.14 MB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 69, Downloads (12 Months): 149, Downloads

We investigate the benefits of a heterogeneous architecture for wireless sensor networks consisting of a few resource rich mobile relay nodes and a large number of simple static sensors. ...

**Keywords:** mobile relay, network lifetime, sensor networks

#### 7 [Mimic: raw activity shipping for file synchronization in mobile file systems](#)



Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **MobiSys '04: Proceedings of the 2nd international conference on mobile systems**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (334.54 KB)

**Additional Information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 26, Downloads

In this paper, we consider the problem of file synchronization when a mobile device is connected to a backbone file server in a network file system. Several *diff* schemes have been proposed to reduce the transfer overheads of conventional ...


**Keywords:** file synchronization, mobile file system, raw activity shipping

## 8 Resolving feature convolution in middleware systems

 Charles Zhang, Hans-Arno Jacobsen

October 2004 **OOPSLA '04:** Proceedings of the 19th annual ACM SIGPLAN conference on Object-Oriented Programming, systems, languages, and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (569.29 KB)

**Additional Information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 117, Downloads


Middleware provides simplicity and uniformity for the development of distributed systems. The modularity of the architecture of middleware is starting to disintegrate as the interaction of too many orthogonal ...

**Keywords:** aspect oriented middleware, middleware architecture

Also published in:


October 2004 **SIGPLAN Notices** Volume 39 Issue 10

## 9 OO techniques applied to a real-time, embedded, spaceborne application

 Alexander T. Murray, Mohammad Shahabuddin

October 2006 **OOPSLA '06:** Companion to the 21st ACM SIGPLAN symposium on Object-Oriented Programming, systems, languages, and applications

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (510.33 KB)


**Additional Information:** [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 93, Downloads

Though Object-Oriented Analysis, Design, and languages have become the most popular paradigms of software engineering, concerns about complexity, size, and performance in real-time software domain have led to a prevalent ...


**Keywords:** C++ , embedded, object-oriented analysis, object-oriented language, use case

## 10 A bibliography of parallel debuggers, 1993 edition

 Cheri M. Pancake, Robert H. B. Netzer

December 1993 **PADD '93:** Proceedings of the 1993 ACM/ONR workshop on Parallel Debugging

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (1.17 MB)


**Additional Information:** [full citation](#), [reference list](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 41, Download

Also published in:


December 1993 **SIGPLAN Notices** Volume 28 Issue 12

# 11 HPC-Colony: services and interfaces for very large systems

 Sayantan Chakravorty, Celso L. Mendes, Laxmikant V. Kalé, Terry Jones, A  
Morgira

April 2006 **SI GOPS Operating Systems Review**, Volume 40 Issue 2

**Publisher:** ACM


Full text available:  Pdf (437.39 KB)

Additional Information: full citation, abstract

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 37, Download


Traditional full-featured operating systems are known to have properties distributed memory parallel programs, the most common programming computing. Furthermore, as processor counts increase ...

# 12 Sensor: the atomic computing particle

 Vijay Kumar

December 2003 **SIGMOD Record**, Volume 32 Issue 4

**Publisher:** ACM


Full text available:  Pdf (176.98 KB)

Additional Information: full citation, abstract


**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 36, Download

We visualize the world as a fully connected information space where each object without any temporal and geographical constraints. We can model fine granularity processing which can ...

# 13 Conformance checking of service behavior

 Wil M. P. van der Aalst, Marlon Dumas, Chun Ouyang, Anne Rozinat, Eric V  
May 2008 **Transactions on Internet Technology (TOIT)**, Volume 8 Issue

**Publisher:** ACM 

Full text available:  Pdf (1.99 MB)

Additional Information: full citation, abstract

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 340, Download

A service-oriented system is composed of independent software units, not one another exclusively through message exchanges. The proper function whether or not each individual service behaves ...


**Keywords:** BPEL, Petri nets, ProM, Web services, conformance

# 14 Human-in-the-loop: rethinking security in mobile and pervasive systems

 Vassilis Kostakos

April 2008 **CHI '08: CHI '08 extended abstracts on Human factors in computing**

**Publisher:** ACM 


Full text available:  Pdf (116.61 KB)


Additional Information: full citation, abstract

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 156, Download

In this paper we argue that pervasive systems introduce human-driven traditional usability design cannot address. We claim that there is a need appropriate role of humans in the context of pervasive ...

**Keywords:** mobility, pervasive and ubiquitous systems, security, social

- 15 [Challenges and practices in deploying web acceleration solutions for](#)  
 Wen-Syan Li, Wang-Pin Hsiung, Oliver Po, Koji Hino, Kasim Selcuk Candan  
 May 2004 **WWW '04**: Proceedings of the 13th international conference on  
**Publisher:** ACM


Full text available:  Pdf (6.61 MB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 94, Downloads

For most Web-based applications, contents are created dynamically based on such as product prices and inventory, stored in database systems. These contents track user behavior while ...

**Keywords:** application server, dynamic content, edge server, fragment acceleration

- 16 [Comparison of online social relations in volume vs interaction: a case study](#)  
 Hyunwoo Chun, Haewoon Kwak, Young-Ho Eom, Yong-Yeol Ahn, Sue Moon  
 October 2008 **IMC '08**: Proceedings of the 8th ACM SIGCOMM conference on  
**Publisher:** ACM [Request Permissions](#)


Full text available:  Pdf (1.10 MB)


Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 122, Downloads (12 Months): 777, Downloads

Online social networking services are among the most popular Internet services. These services have become a key feature in many Internet services. Users interact through these networking services: making friends ...

**Keywords:** clustering coefficient, cyworld, degree correlation, degree distribution, relationship, guestbook log, k-core, network motif, online social network

- 17 [A management and performance framework for semantic web services](#)  
 Malena Mesarina, Venugopal Srinivasamurthy, Nic Lyons, Craig Sayers  
 May 2007 **WWW '07**: Proceedings of the 16th international conference on  
**Publisher:** ACM




Full text available:  Pdf (70.27 KB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 59, Downloads



The unification of Semantic Web query languages under the SPARQL standard commercial-quality implementations are encouraging industries to use semantic information. Current implementations, however, lack ...

**Keywords:** management, performance, semantic web

-  [Resonance on the web: web dynamics and revisitation patterns](#)  
 Eytan Adar, Jaime Teevan, Susan T. Dumais  
 April 2009 **CHI '09: Proceedings of the 27th international conference on**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (2.14 MB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 170, Downl




The Web is a dynamic, ever-changing collection of information accessed explores the relationship between Web page content change (obtained i pages) and people's revisitation to those pages (collected ...

**Keywords:** change, re-finding, resonance, revisitation, web behavior, v

- 19 [The design and evaluation of a mobile sensor/actuator network for a](#)  
 Tim Wark, Chris Groseman, Wen Hu, Ying Guo, Philip Valencia, Pavan Sikka, Henshall, Kishore Prayaga, Julian O'Grady, Matt Reed, Andrew Fisher  
 April 2007 **IPSN '07: Proceedings of the 6th international conference on networks**  
**Publisher:** ACM  
 Full text available:  Pdf (2.04 MB) **Additional Information:** [full citation](#), [abstract](#)  
**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 233, Downl

This paper investigates a mobile, wireless sensor/actuator network appl industry. Our goal is to prevent fighting between bulls in on-farm breed applying appropriate stimuli when one bull ...

**Keywords:** application, autonomous animal control, sensor/actuator ne

- 20 [The travails of visually impaired web travellers](#)  
 Carole Goble, Simon Harper, Robert Stevens  
 May 2000 **HYPERTEXT '00: Proceedings of the eleventh ACM on Hypert**  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (229.51 KB) **Additional Information:** [full citation](#), [reference](#)  
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**Keywords:** hypertext, mobility, navigation, travel, usability, visual imp

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